



Quadro4L: Small Office IP PBX with Four FXO and Two FXS Ports

Any business with communication needs requires a phone system with the same reliability and clarity of a large enterprise product. The Quadro4L was designed with those requirements as primary attributes and is the main focus of all Epygi solutions. No matter the size of the customer, a company needs a telephony product that will provide a premium level of service every day on every call. In addition to superb quality, the Quadro4L offers a wide range of features including unified messaging, auto attendant, call relay, call queuing, integrated fax server, life line port and key system emulation.

The Quadro4L is equipped with four (4) FXO ports to connect to the PSTN and two (2) FXS ports for analog phones or fax machines. Additionally included is SIP trunking, so the Quadro4L can connect directly to an Internet Telephony Service Provider (ITSP) at no additional cost. IP phones can also be registered directly with the IP PBX supporting up to 24 IP phones. These phones can either be manually connected or automatically configured by the Quadro4L. In key system mode, up to 12 IP phones can be used.

Legacy Phone System Replacement

Epygi designed the Quadro4L for deployment right out of the box as a turn-key solution. Using advanced plugand-play for IP phones, multiple FXO ports for PSTN access and two FXS ports, this IP PBX functions as a traditional PBX or key system. As a bonus, Epygi delivers features not found on traditional key systems. Business enhancements include after-hours auto attendant and unified messaging, among many others.

Effortless Administration

Sophisticated auto-recognition and auto-configuration capabilities between the Quadro4L and certified IP phones simplify installation and operation. The administrator can modify automatic assignments through the Graphical User Interface. Also integrated into the Quadro4L is a fully featured router, DHCP and firewall with intrusion detection and prevention. Therefore, a complete small business network can be managed by a single device.

What are Your VolP BENEFITS?

- Key System Simplicity
- True IP Solution
- Turn-key Installation
- No Expensive Licenses



Telephony

PBX Features

Call blocking*, Forwarding, Hold, Transfer* Call relay*, Call waiting* Caller ID Detection, Voice mail* Call park*, Pickup*, Paging*, Intercom* Multi-level auto attendant with Interactive Voice Response (IVR) and VoiceXMLv2 support*

Voice mail with SMS notification* Distinctive ringing*

Speed dialing*

Many extension ringing*

Receptionist

Call hunting*, Hiding Caller ID* Automated Call back from Auto Attendant*

Hold music Call statistics

Do Not Disturb service* Unified messaging* 3-way conferencing*

T.38 fax, fax relay and clear channel fax* Unified Fax Messaging*

Busy auto-redial* Directory assistance* Dial plans (call routing)*

IP Routing* Call Queue*

Key System Emulation

Features not available in Key System **Emulation Mode**

Voice and Video Features

Voice Coding:

G.711, G.726 (16, 24, 32, 40 Kbps), G.729A, iLBC (13,33 kbit/s, 15,2 kbit/s); VAD, CNG, G.168 echo cancellation G.722 pass-through point-to-point HD call Video Coding:

H.263 and H.264 pass-through point-topoint video call

VoIP Encryption:

SRTP

VoIP Signaling SIP, SIP/TLS

DTMF

In band & out of band signaling support.

VoIP Data and Signaling Protocols

ITU-T G711, G.726, G729 Annex A; IETF RFC 3951- iLBC; ITU-T Q.23, Q.24; Bellcore GR.506, GR.181; ITU-T G.168-2000, 2002; ETS 300659 1,2,3; SIP, SIPS/TLS (RFCs: 2246, 3261, 3263, 3265, 3311, 3323, 3324, 3325, 3428, 3515, 3578, 3581, 3725, 3842, 3856, 3863, 3891, 3892, 4028, 4235) SDP (RFC: 2327, 4568) RTP/SRTP (RFCs: 1889, 1890, 2833, 3389,

3550, 3551, 3555, 3711, 4733, 3952) Fax over IP (ITU-T: T4, T30, T38, V17, V21,

V27 ter, V29)

POTS Signaling Loop start

FSK and DTMF Caller ID support

Connectivity

Physical interfaces

Premise connections:

2 FXS short-loop FXS ports (RJ-11) 1 LAN Ethernet 10/100 BASE-T port (RJ-45)

Uplink connections:

4 FXO ports to the Central Office (RJ11) 1 WAN Ethernet 10/100 BASE-T (RJ45)

Phones

IP phones:

16 SIP phones by default in PBX mode 8 additional SIP phones may be added with feature keys in PBX mode 12 SIP phones can be used in KSE mode All SIP phones can be connected both from LAN or WAN side Plug-and-Play with select IP Phone manufactures

Analog phones:

2 Analog phones (or other analog devices) to connect via FXS ports

Auto Attendants and Virtual Extensions Auto Attendants:

Up to 100 standard and custom AA can be registered

Virtual Extensions:

Up to 100 Virtual Extensions can be registered**

**The total number of extensions used for IP phones, Analog phones, AA and virtual extensions can not exceed 100 extensions.

System Capacity

Up to 16 simultaneous VoIP calls with external parties

Unlimited station to station calling for IP phones

Unlimited station to station calling for analog phones

4 analog PSTN calls with external parties

System

Management

Multilingual WEB interface accessible from LAN and WAN (HTTP/HTTPS)

Password control

Remote diagnostics and software upgrade

Auto-provisioning

VoIP Carrier Wizard

Download/restore configuration Legible and editable configuration files Auto-configuration of IP phones via

TFTP and HTTP

SNMP Monitoring and Configuration Third Party Call Control XML RPC

Reset button with factory reset option Custom Language Pack

Billing

Radius Client (RFCS: 2865, 2866)

Diagnostics/Testing

LEDs: Busy, Info, Fault, LAN, WAN, Loop settings

Remote testing

Internet

STUN/NAT traversal (RFC 3489) IPSec VPN with DES, 3DES amnd AES encryption in tunnel mode (RFCs: 2402, 2406, 2409). Automatic IKE key support

PPTP VPN L2TP VPN

Firewall security via:

Intrusion Detection System NAT (Network Address Translation)

Policy and service-based filtering Stateful inspection firewall

DHCP server on the LAN side DHCP client on the WAN side

DNS server with forwarding functionality SNTP (Simple Network Time Protocol) server/client for computer clock synchronization PPPoE connection to the ISP with PAP/(MS)CHAP authentication

IP DIFFSERV for QoS

Virtual LAN (VLAN/IEEE 802.1Q) Mail client to send voice and fax messages as e-mail attachments (.wav and .tif) and system notifications DNS (DYNDNS) support with third party NAT/Router with port forwarding and port translation.

Environmental

Physical Dimensions

Desktop devices, wall-mountable: Measurements: 7.41" x 6.24" x 1.77" (19 x 16 x 4.5 cm)

Weight: 13 ounces (360 g)

Conditions

41°F - 104°F (5°C - 40°C) operating temperature

41°F - 140°F (5°C - 60°C) storage

temperature 5% - 90% non-condensing humidity

Local PSTN

Power Supply Input 100 - 240 VAC; 50/60 Hz; 0.5 A Output 12.0 VDC; 1.5 A

Regulatory Compliance

Telecom: CTR21/TBR21, AS/ACIF



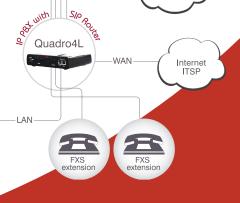
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FXO Trunks